

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6605442").PN.	USPAT	OR	OFF	2005/05/06 12:12
S2	0	isgf3 with label	US-PGPUB; USPAT	ADJ	ON	2005/05/06 11:56
S3	112	isgf3	US-PGPUB; USPAT	ADJ	ON	2005/05/06 11:56
S4	0	receptor recognition factor with label?	US-PGPUB; USPAT	ADJ	ON	2005/05/06 12:13
S5	26	receptor recognition factor with label\$	US-PGPUB; USPAT	ADJ	ON	2005/05/06 12:13

\$%^STN/Highlighton= **;HighlighttoF=*** ;
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NEWS 6 data from INPADOC
NEWS 7 BABS - Current-awareness alerts (SDIs) available
NEWS 8 MEDLINE/IMEDLINE reloaded
NEWS 9 GBFULL: New full-text patent database on STN
NEWS 10 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 11 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 12 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 13 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 14 PATDPASPC - New patent database available
NEWS 15 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 16 ERFULL enhanced with additional patent information and new
NEWS 17 fields
NEWS 18 EMBASE - Database reloaded and enhanced
NEWS 19 New CAS Information Use Policies available online
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NEWS 21 based on application date in CA/CAPLUS and USPATFUL/USPAT2
NEWS 22 may be affected by a change in filing date for U.S.
NEWS 23 applications.
NEWS 24 Improved searching of U.S. Patent Classifications for
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FILE 'DRUGMONOC' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE
ENTRY
SESSION
TOTAL
0.21
0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECABS, BIOTECCHS,
BIOTECNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONSCSI, CROPB,
CROPU, DDBB, DDBU, DEENE, DISSABS, ...' ENTERED AT 12:02:33 ON 06 MAY
2005

75 FILES IN THE FILE LIST IN STNINDEX

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=> s isgr3 (15a) label?

1 FILE BIOSIS
2 FILE BIOTECNO
3 FILE CANCERLIT
1 FILE CAPLUS
1 FILE DRUG

31 FILES SEARCHED...

1 FILE EMBASE
1 FILE ESBIOBASE
2 FILE LIFESCI
1 FILE MEDLINE
2 FILE SCISEARCH
2 FILE USPATFUL

71 FILES SEARCHED...

11 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE ISGR3 (15A) LABEL?

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SINCE FILE
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SESSION
TOTAL
1.18
1.39

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FILE 'MEDLINE' ENTERED AT 12:03:37 ON 06 MAY 2005

=> s 11
 L2 17 L1

=> dup rem 12
 PROCESSING COMPLETED FOR L2
 L3 6 DUP REM L2 (11 DUPLICATES REMOVED)

=> d 13 bib ab 1-6

L3 ANSWER 1 OF 6 USPATFULL on STN
 AN 2004:267774 USPATFULL
 T1 Methods to identify agents that increase or decrease UBP43 activity and
 IN methods for use of such agents
 Zhang, Dong-Br, San Diego, CA, UNITED STATES
 Yan, Ming, San Diego, CA, UNITED STATES
 Malakhova, Okana A., San Diego, CA, UNITED STATES
 P1 US 2004209315 A1 20041021
 A1 US 2004-771951 A1 20040203 (10)
 PRA1 US 2003-444941P 20030203 (60)
 FS APPLICATION
 DT Utility
 LREP BAKER & BOTTS, 30 ROCKEFELLER PLAZA, NEW YORK, NY, 10112
 CLMN Number of Claims: 54
 ECL Exemplary Claim: 1
 DRWN 5 Drawing Page(s)
 LN.CNT 1878

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 The present invention is directed to identification of agents that
 modulate UBP43 activity as well as associated methods, uses, processes,
 compositions and agents. In particular, the invention is directed to in
 vivo and in vitro methods to identify an agent that inhibits or

stimulates UBP43 activity within a cell, a method for inducing cellular
 apoptosis, a method for affecting cellular reaction to interferon, a
 method for treating disease associated with cellular proliferation by
 causing apoptosis, and a method for treating both acute and chronic
 diseases in which interferon exerts a beneficial effect. The invention
 is also directed to modified ISG15-conjugates that have lowered or no
 susceptibility to UBP43 cleavage, pharmaceutical compositions of the
 agents, conjugates, and additional modified ISG15-conjugates.

L3 ANSWER 2 OF 6 USPATFULL on STN
 AN 2001:152761 USPATFULL
 T1 Accessory factory function for interferon gamma and its receptor
 IN Pestka, Sidney, North Caldwell, NJ, United States
 Ktenko, Serguei, Highland Park, NJ, United States
 Sch, Jaemog, Highland Park, NJ, United States
 Donnelly, Robert J., Highland Park, NJ, United States
 Mariano, Thomas M., Somerset, NJ, United States
 Cook, Jeffrey R., Kendall Park, NJ, United States
 Emanuel, Stuart, New Brunswick, NJ, United States
 Schwartz, Barbara, Annandale, NJ, United States
 PA University of Medicine & Dentistry of New Jersey, Newark, NJ, United
 States (U.S. corporation)
 P1 US 6287853 B1 20010911
 A1 US 1997-871572 19970609 (8)
 RLI Continuation of Ser. No. US 1995-444134, filed on 18 May 1995, now
 abandoned Division of Ser. No. US 1993-110119, filed on 20 Aug 1993, now
 abandoned

DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Saoud, Christine J.
 LREP Muccino, Richard R.
 CLMN Number of Claims: 5
 ECL Exemplary Claim: 1
 DRWN 32 Drawing Figure(s); 24 Drawing Page(s)
 LN.CNT 3188

AB This invention relates (a) to a 540 kb YAC which encodes the necessary
 species-specific factor(s) and is able to substitute for human
 Chromosome 21 to reconstitute the Hu-IFN-gamma receptor-mediated
 induction of class I HLA antigens; (b) to the construction of a plasmid
 to integrate the selective marker for antibiotic G418 resistance into
 YACs and to delete some of the human DNA fragments from YACs in order to
 facilitate the manipulation of human genomic DNA in yeast artificial
 chromosome (YAC) clones; (c) to two fragmentation vectors, PSE1 and
 PSE2, which contain a neomycin resistance and URA3 gene, developed for
 targeting yeast artificial chromosomes (YACs) containing human genomic
 DNA; (d) to a chromosomal fragmentation procedure employed to produce a
 deletion set of yeast artificial chromosomes (YACs) from a parental YAC
 (GARI D142H8) known to map to Chromosome 21q and to encode the human
 interferon-gamma receptor (Hu-IFN-gamma R) accessory factor gene as well
 as the phosphoribosylglycinamide formyltransferase (GARF) gene; and (e)
 to the isolation of cDNA clones that encode the necessary
 species-specific factor and that are able to substitute for human
 Chromosome 21 to reconstitute the Hu-IFN-gamma receptor-mediated
 induction of class I HLA antigens.

L3 ANSWER 3 OF 6 CANCERLIT on STN
 AN 97413783 CANCERLIT
 DUPLICATE 1

DN 97413783 PubMed ID: 9268319
 TI Regulation of interferon-alpha responsiveness by the duration of Janus
 kinase activity.
 AU Lee C K; Bluyssen H A; Levy D E
 CS Department of Pathology and Kaplan Cancer Center, New York University
 School of Medicine, New York, New York 10016, USA.
 NC A128900 (NIAID)
 SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1997 Aug 29) 272 (35) 21872-7.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS MEDLINE; Priority Journals
 OS MEDLINE 97413783
 ED 199710
 AB Entered STN: 19971105
 Last Updated on STN: 20021018
 Daniel B lymphoblastoid cells are highly sensitive to the anti-growth and
 anti-viral effects of interferon (IFN). Unlike many cell lines, these
 cells show prolonged transcription of IFN-stimulated genes following
 treatment with IFN-alpha. This prolonged response correlated with the
 continued presence of the activated transcription factor, IFN-stimulated
 gene factor 3 (***ISGF3***). Pulse-chase ***labeling***
 experiments indicated that the half-life of the phosphorylation of signal
 transducers and activators of transcription (Stat1 and Stat2 was short
 (<2 h) although the turnover of the proteins themselves was slow (>24 h),
 indicative of a constitutive phosphatase activity. The administration of
 protein-tyrosine kinase inhibitors at any time point during IFN
 stimulation led to rapid inhibition of the response, indicating that
 tyrosine kinase activity was continuously required. Catalytic activity of
 Jak1 and Tyk2 kinases remained elevated for prolonged periods following
 stimulation. Continuous presence of IFN-alpha was necessary for
 maintaining prolonged activation of ISGF3 and of Janus kinases, an
 activity that was blocked by antibodies to IFN-alpha or by cycloheximide.
 Conditioned medium of IFN-alpha-stimulated cells was capable of
 stimulating STAT activation in naive cells. Taken together, these results
 suggest that the response to IFN-alpha is controlled by the duration of
 stimulated Janus kinase activity over the background of constitutive
 dephosphorylation and that this response can be sustained by autocrine
 secretion of IFN-alpha.

L3 ANSWER 4 OF 6 CANCERLIT on STN
 AN 1996837782
 DN 96837782
 TI Interferon-alpha resistance in a cutaneous T cell lymphoma cell line is
 associated with loss of the STAT1 protein [Meeting abstract].
 AU Sun W H; Jandaska S; Pabon C; Rosen S T
 CS Lurie Cancer Center, Northwestern University Medical School, Chicago, IL
 60614.
 SO Proc Annu Meet Am Assoc Cancer Res. (1997) 38 A782.
 ISSN: 0197-016X.
 DT (MEETING ABSTRACTS)
 LA English
 FS Institute for Cell and Developmental Biology
 EM 199801
 ED Entered STN: 19980109
 Last Updated on STN: 19980109

AB Cutaneous T cell lymphoma (CTCL) is characterized by a clonal malignant
 proliferation of mature helper T cells in the skin with ultimate
 progression involving lymph nodes, peripheral blood and viscera.
 Administration of recombinant interferon alpha-2a (IFNalpha-2a) has been
 shown to be one of the most effective therapies for CTCL. However, the
 efficacy of IFNalpha-2a is limited by the development of resistance in
 some patients who received continuous therapy. IFNalpha belongs to the
 Type-I IFN family and binds to the Type-I IFN receptor (IFNR).
 Phosphorylation of IFNR, immediately after ligand binding, is regulated by
 two Janus kinases (Tyk-2 and Jak-1). Tyk-2 and Jak-1 themselves also
 become phosphorylated in cells upon IFNalpha stimulation. The activated
 Tyk-2 and Jak-1 then induce phosphorylation of interferon-regulated signal
 transducers and activators of transcription (STATs). Activated STAT 1 and
 2 can associate with a 48 kD protein (p48) to form the
 interferon-stimulated gene factor-3 (ISGF-3) complex which binds
 specifically to the IFNalpha-stimulated response element (ISRE), resulting
 in gene transcription. More recently, STAT3 was reported to be
 phosphorylated upon IFNalpha treatment and form a protein-DNA complex,
 distinct from the ISGF3 complex. We have developed an IFN resistant CTCL
 cell line (HUT78R) by culturing the IFN-sensitive cells (HUT78S) in
 increasing concentration of IFNalpha-2a (up to 1 x 10⁶ U/ml) for a
 prolonged period. The levels of IFNR mRNA expression were found to be
 comparable between the two lines, by Northern and Slot blot analyses. The
 HUT78R and S lines also exhibited similar levels of binding sites and
 binding affinity for 125I-labeled recombinant IFNalpha-2a determined by
 Scatchard analysis. By gel shift analysis, we found that IFNalpha induced
 the ***ISGF3*** complex formation using the ***labeled*** ISRE
 probe and that DNA-protein interaction was inhibited in the HUT78R cells.
 We then examined STAT protein activation in HUT78 cells and our results
 showed that phosphorylation of STAT1 was completely inhibited in the
 resistant cells. However, IFNalpha-induced STAT2 phosphorylation was
 comparable between the HUT78R and HUT78S lines. Both lines exhibited a low
 level of constitutive STAT3 phosphorylation and an increased level of
 STAT3 phosphorylation can be induced upon IFNalpha-2a treatment. To our
 surprise, we did not detect any STAT1 (alpha and beta) protein in the
 HUT78R cells by immunoblotting analysis. RT-PCR results revealed that both
 cell lines contain the STAT1 transcript, using primers encoding the first
 five exons. However, it is not clear if there are mutation(s) further
 downstream that may cause premature termination of the transcript. We are
 currently investigating these possibilities. In summary, our findings
 suggest that IFNalpha-resistance are caused by the loss of STAT1 protein
 in a human cancer cell line.

L3 ANSWER 5 OF 6 DRUGU COPYRIGHT 2005 THE THOMSON CORP on STN
 AN 1995-33339 DRUGU C M
 TI Interferon receptor recognition peptides enhance the biological potency
 of interferon alphas.
 AU Fish E n
 CS Univ Toronto
 LO Toronto, Ont., Can.
 SO FEBS Lett. (365, No. 1, 87-91, 1995) 4 Fig. 25 Ref.
 CODEN: FEBLAL ISSN: 0014-5793
 AV Department of Microbiology, University of Toronto, Fitzgerald Bldg., 150
 College Street, Toronto, Ont., M5S 1A8, Canada.
 LA English
 DT Journal
 AB; LA; CT

FS Literature
 AB 3 Peptides were prepared which corresponded to putative receptor recognition domains of IFN: they were designated IFN receptor recognition peptides (IRRP): CLKDRHD (IRRP-1), ESLEKFTETLYQQLND (IRRP-2) and YFQRILVLYTERKYSPCA (IRRP-3). The peptides increased the extent of 125I-IFN-alpha-2 binding to Daudi cells, and enhanced the activation of the transcription factor ISGF3 induced by IFN-Con-1 (a consensus IFN-alpha, Amgen) in Daudi and MRC-5 cells. Human glial T98G cells were challenged with EMC virus (EMCV); the peptides enhanced the antiviral activity of suboptimal doses of IFN-Con-1 vs. EMCV. However, the IRRP peptides had little ability to augment the antiproliferative action of higher doses of IFN-Con-1 vs. T98G cells.

L3 ANSWER 6 OF 6 CANCERLIT ON STN DUPLICATE 2
 AN 92346719 CANCERLIT
 DN 92346719 Pubmed ID: 1638633
 T1 A transcription factor with SH2 and SH3 domains is directly activated by an interferon alpha-induced cytoplasmic protein tyrosine kinase(s).
 AU Fu X Y
 CS Department of Biochemistry, Mount Sinai School of Medicine, New York, New York 10029.
 SO CELL, (1992 Jul 24) 70 (2) 323-35.
 CY Journal code: 0413066. ISSN: 0092-8674.
 DT United States
 LA English
 FS MEDLINE: Prioritry Journals
 OS MEDLINE 92346719
 EM 199209
 ED Entered STN: 19990618
 AB Last Updated on STN: 19990618
 Interferon-stimulated gene factor 3 (ISGF3), the primary transcription factor induced by interferon alpha, is a complex of four (113, 91, 84, and 48 kD) proteins. This paper reports that the 113, 91, and 84 kD (ISGF3 alpha) proteins of ISGF3 contain conserved SH2 and SH3 domains. A specific interferon alpha-induced cytoplasmic protein tyrosine kinase(s) can form a transient complex with ISGF3 alpha proteins. These ISGF3 alpha proteins can be immunoprecipitated by anti-phosphotyrosine antibodies only after interferon alpha treatment. Phosphoamino acid analyses of 32P-labeled ***ISGF3*** alpha proteins confirm that ***ISGF3*** alpha proteins are directly tyrosine phosphorylated both in vitro and in vivo in response to interferon alpha, and this tyrosine phosphorylation can be inhibited by staurosporine and genistein. Phosphatase treatment of these ISGF3 alpha proteins results in inhibition of ISGF3 complex formation in vitro. These observations indicate that interferon alpha-induced direct tyrosine phosphorylation of ISGF3 alpha proteins is necessary for activation of the transcription factor ISGF3.

=> d his
 (FILE 'HOME' ENTERED AT 12:02:22 ON 06 MAY 2005)

INDEX 'ADISCTI', ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AOUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTEGHANS, BIOTEGHS, BIOTEGHNO, CAB, CANCERLIT, CAPLUS, CEBA-VTB, CEV, CIN, CONFSCI, CROBP, CROPU, DDB, DDFU, DGENE, DISSABS, ... ENTERED AT 12:02:33 ON 06 MAY 2005

SEA ISGF3 (15A) LABEL?

 1 FILE BIOSIS
 2 FILE BIOTEGHNO
 3 FILE CANCERLIT
 1 FILE CAPLUS
 1 FILE DDFU
 1 FILE EMBASE
 1 FILE EMBASE
 2 FILE LIFESCI
 1 FILE MEDLINE
 2 FILE SCISEARCH
 2 FILE USPATFUL
 L1 QUE ISGF3 (15A) LABEL?

 FILE 'CANCERLIT, BIOTEGHNO, LIFESCI, SCISEARCH, USPATFUL, BIOSIS, CAPLUS, DDFU, EMBASE, ESHIOBASE, MEDLINE' ENTERED AT 12:03:37 ON 06 MAY 2005
 L2 17 S L1
 L3 6 DUP REM L2 (11. DUPLICATES REMOVED)
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 COST IN U.S. DOLLARS
 FULL ESTIMATED COST
 COST ENTRY TOTAL
 20.89 22.28
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FULL ESTIMATED COST	20.89	22.28

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SINCE FILE ENTRY	TOTAL SESSION
20.89	22.28

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=> s receptor (w) recognition (w) factor

- 1 FILE BIOCOMMERCE
- 7 FILE BIOSIS
- 2 FILE BIOTECHAS
- 2 FILE BIOTECHDS
- 1 FILE BIOTECNO
- 1 FILE BIOTECHNO
- 5 FILE CANCERLIT
- 3 FILE CAPLUS
- 1 FILE CEABA-VTB
- 1 FILE CIN

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- 34 FILE DGENE
- 1 FILE EMBASE
- 1 FILE ESBIOBASE

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- 90 FILE GENBANK
- 8 FILE IFIPAT
- 1 FILE MEDLINE
- 1 FILE SCISEARCH
- 2 FILE TOXCENTER
- 29 FILE USPAT2
- 1 FILE USPATFULL
- 3 FILE WPIDS
- 73 FILES SEARCHED...
- 3 FILE WPINDEX

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L4 QUE RECEPTOR (W) RECOGNITION (W) FACTOR

=> s 14 (15a) label?
 27 FILES SEARCHED...
 55 FILES SEARCHED...
 25 FILE USPAT2
 1 FILE USPAT2

3 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L5 QUE L4 (15A) LABEL?

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2.36	24.64

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=> s 15
 L6 29 L5

=> dup rem 16
 PROCESSING COMPLETED FOR L6
 L7 25 DUP REM L6 (4 DUPLICATES REMOVED)

=> 17 not 13
 L7 IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s 17 not 13
 L8 25 L7 NOT L3

=> s 18 and pd<1993
 L9 0 L8 AND PD<1993

=> d 18 bib ab 24-25

L8 ANSWER 24 OF 25 USPATFULL ON STN
 AN 1999:136984 USPATFULL
 T1 Nucleic acids encoding receptor recognition factor Stat1.alpha. and Stat1.beta., and methods of use thereof
 IN Darneil, Jr., James E., Larchmont, NY, United States
 Schindler, Christian W., New York, NY, United States
 Fu, Xin-Yuan, Forrest Hills, NY, United States
 Wen, Zilong, New York, NY, United States
 Zhong, Zhong, New York, NY, United States
 The Rockefeller University, New York, NY, United States (U.S.)

PA

corporation)
 PI US 5976835 19991102
 ECL US 1997-820754 19970319 (8)
 RLI Division of Ser. No. US 1994-212185, filed on 11 Mar 1994 which is a continuation-in-part of Ser. No. US 1993-126588, filed on 24 Sep 1993, now abandoned And Ser. No. US 1993-126595, filed on 24 Sep 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-980498, filed on 23 Nov 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-854296, filed on 19 Mar 1992, now abandoned

DT Utility
 FS Granted
 EXNAM Primary Examiner: Spector, Lorraine
 LREP Klauber & Jackson
 CLM Number of Claims: 36
 ECL Exemplary Claim: 1
 DRWN 53 Drawing Figure(s); 46 Drawing Page(s)
 LN.CNT 4986

AB CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 Receptor recognition factors exist that recognizes the specific cell receptor to which a specific ligand has been bound, and that may thereby signal and/or initiate the binding of the transcription factor to the DNA site. The receptor recognition factor is in one instance, a part of a transcription factor, and also may interact with other transcription factors to cause them to activate and travel to the nucleus for DNA binding. The receptor recognition factor appears to be second-messenger-independent in its activity, as overt perturbations in second messenger concentrations are of no effect. The concept of the invention is illustrated by the results of studies conducted with interferon (IFN)-stimulated gene transcription, and particularly, the activation caused by both IFN.alpha. and IFN-.gamma.. Specific DNA and amino acid sequences for various human and murine receptor recognition factors are provided, as are polypeptide fragments of two of the ISGF-3 genes, and antibodies have also been prepared and tested. The polypeptides confirm direct involvement of tyrosine kinase in intracellular message transmission. Numerous diagnostic and therapeutic materials and utilities are also disclosed.

LB ANSWER 25 OF 25 USPATFULT on STN
 AN 1999:92527 USPATFULT
 T1 Mammalian ob polypeptides capable of modulating body weight, corresponding nucleic acids, and diagnostic and therapeutic uses thereof
 IN Friedman, Jeffrey M., New York, NY, United States
 Zhang, Yiyang, New York, NY, United States
 Proenca, Ricardo, Astoria, NY, United States
 Maftel, Margherita, Asclano, Italy
 Halaas, Jeffrey L., New York, NY, United States
 Gajiwala, Ketan, New York, NY, United States
 Burley, Stephen K., New York, NY, United States
 PA The Rockefeller University, New York, NY, United States (U.S. corporation)
 PI US 5935810 19990810
 A1 US 1994-347563 19941130 (8)
 RLI Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Bailey, II, Johnny F.
 LREP Klauber & Jackson

CLM Number of Claims: 27
 ECL Exemplary Claim: 1
 DRWN 38 Drawing Figure(s); 35 Drawing Page(s)
 LN.CNT 3413

AB CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and to the diagnostic and therapeutic uses to which such modulators may be put. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

=> Log h
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

ENTRY	SINCE FILE	TOTAL
8.25	SESSION	32.89

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 12:12:56 ON 06 MAY 2005